Claims

1. A compound of formula (I) or a pharmaceutically acceptable salt thereof:

$$(R^2)_m$$
 $(CH_2)_p$
 $(R^3)_n$
 (I)

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wherein:

 R^1 represents hydrogen, $-C_{1-6}$ alkyl, $-C_{0-4}$ alkyl- C_{3-8} cycloalkyl, $-C_{2-4}$ alkoxy- C_{1-4} alkyl, $-C_{1-4}$ alkyl-heterocyclyl, or R^1 is linked to R^2 to form a group $(CH_2)_2$, $(CH_2)_3$ or $(CH_2)_4$;

wherein said alkyl, cycloalkyl, aryl, heteroaryl or heterocyclyl groups of R^1 may be optionally substituted by one or more (e.g. 1, 2 or 3) halogen, C_{1-6} alkyl, C_{1-6} alkoxy, cyano, amino or trifluoromethyl groups;

R² represents hydrogen or C₁₋₆ alkyl;

m represents an integer from 1 to 4, such that when m is an integer greater than 1, two R² groups may instead be linked to form a CH₂, (CH₂)₂ or (CH₂)₃ group;

R³, R⁴ and R⁵ independently represent hydrogen, halogen, cyano, -CF₃, -CF₃O, C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkanoyl or a group –CONR⁶R⁷;

R⁶ and R⁷ independently represent hydrogen or C₁₋₆ alkyl or R⁶ and R⁷ together with the nitrogen to which they are attached may form a nitrogen containing heterocyclyl or heteroaryl group;

n represents an integer from 1 to 3;

p represents 1 or 2;

J represents CH₂, CO, CF₂, CH(OR⁸), NR⁹, SO, O or S;

25 R⁸ and R⁹ independently represent hydrogen or C₁₋₆ alkyl;

A represents an –aryl, -heteroaryl, -aryl-aryl, -aryl-heteroaryl, -heteroaryl-aryl or – heteroaryl-heteroaryl group;

wherein said aryl and heteroaryl groups of A may be optionally substituted by one or more (e.g. 1, 2 or 3) substituents which may be the same or different, and which are selected from the group consisting of halogen, hydroxy, cyano, nitro, trifluoromethyl, trifluoromethoxy, C_{1-6} alkyl, trifluoromethanesulfonyloxy, pentafluoroethyl, C_{1-6} alkoxy, aryl C_{1-6} alkylthio, C_{1-6} alkoxy C_{1-6} alkyl, C_{3-7} cycloalkyl C_{1-6} alkoxy, C_{1-6} alkoxy, C_{1-6} alkylsulfonyl, C_{1-6} alkylsulfonyl, C_{1-6} alkylsulfonyloxy, C_{1-6} alkylsulfonyl C_{1-6} alkyl, arylsulfonyl, arylsulfonyloxy, arylsulfonyl C_{1-6} alkyl, C_{1-6}

WO 2005/030724 PCT/EP2004/010845

alkylsulfonamido, C_{1-8} alkylamido, C_{1-8} alkylsulfonamido C_{1-8} alkyl, C_{1-8} alkylamido C_{1-8} alkyl, arylsulfonamido, arylsulfonamido C_{1-8} alkyl, arylcarboxamido C_{1-8} alkyl, aroyl, aroyl C_{1-8} alkyl, aryl C_{1-8} alkanoyl, or a group $CONR^{10}R^{11}$ or $SO_2NR^{10}R^{11}$, wherein R^{10} and R^{11} independently represent hydrogen or C_{1-8} alkyl or R^{10} and R^{11} together with the nitrogen atom to which they are attached may form a nitrogen containing heterocyclyl or heteroaryl group; or solvates thereof.

- 2. A compound of formula (I) as defined in claim 1 which is:
- 3-[(3-Chlorophenyl)methyl]-8-(1-piperazinyl)quinoline;
 (3-Chlorophenyl)[8-(1-piperazinyl)-3-quinolinyl]methanone;
 3-(Phenyloxy)-8-(1-piperazinyl)quinoline;
 or a pharmaceutically acceptable salt thereof.

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- 15 3. A pharmaceutical composition which comprises a compound as defined in claim 1 or claim 2 and a pharmaceutically acceptable carrier or excipient.
 - 4. A compound as defined in claim 1 or claim 2 for use in therapy.
- 5. A compound as defined in claim 1 or claim 2 for use in the treatment of depression, anxiety, Alzheimer's disease, age related cognitive decline, ADHD, obesity, mild cognitive impairment, schizophrenia, cognitive deficits in schizophrenia and stroke.
- 6. The use of a compound of formula (I) as defined in claim 1 or claim 2 or a pharmaceutically acceptable salt thereof in the manufacture of a medicament for the treatment or prophylaxis of depression, anxiety, Alzheimer's disease, age related cognitive decline, ADHD, obesity, mild cognitive impairment, schizophrenia, cognitive deficits in schizophrenia and stroke.
- 7. A pharmaceutical composition comprising a compound of formula (I) as defined in claim 1 or claim 2 for use in the treatment of depression, anxiety, Alzheimer's disease, age related cognitive decline, ADHD, obesity, mild cognitive impairment, schizophrenia, cognitive deficits in schizophrenia and stroke.
- 35 8. A method of treating depression, anxiety, Alzheimer's disease, age related cognitive decline, ADHD, obesity, mild cognitive impairment, schizophrenia, cognitive deficits in schizophrenia and stroke which comprises administering a safe and therapeutically effective amount to a patient in need thereof of a compound of formula (I) as defined in claim 1 or claim 2 or a pharmaceutically acceptable salt thereof.